TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-14-02** **Date: 16/08/2017**

Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Address : Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements and Construction of CC Drains left side of the 1st main road Dasarahalli in Ward no.15 Dasarahalli Sub division.

Agency : Sri. N. Shivananda, No.35, 2nd Cross, 1st A main road, Defiance colony, Bagalagunte, Bangalore.

Customer's Reference : EE/DD/WO/99/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-17

Sample ID No : 2017-08-14-02/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/08/2017	16/08/2017	150.22 X 150.17 X 150.22	22559	8.155	388.0	17.2	17.7
2	Drain Concrete	M20	09/08/2017	16/08/2017	150.28 X 150.87 X 150.11	22673	8.298	410.4	18.1	
3	Drain Concrete	M20	09/08/2017	16/08/2017	150.16 X 150.18 X 150.29	22551	8.267	401.4	17.8	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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ಬಿ.ದಾಸರಹಳ್ಳಿ, ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-14-02** **Date: 06/09/2017**

Customer : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Address : Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Improvements and Construction of CC Drains left side of the 1st main road Dasarahalli in Ward no.15 Dasarahalli Sub division.

Agency : Sri. N. Shivananda, No.35, 2nd Cross, 1st A main road, Defiance colony, Bagalagunte, Bangalore.

Customer's Reference : EE/DD/WO/99/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-17

Sample ID No : 2017-08-14-02/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/08/2017	06/09/2017	151.04 X 151.22 X 149.72	22840	8.168	529.9	23.2	22.7
2	Drain Concrete	M20	09/08/2017	06/09/2017	151.55 X 150.62 X 150.86	22826	8.176	527.3	23.1	
3	Drain Concrete	M20	09/08/2017	06/09/2017	150.67 X 150.52 X 150.87	22679	8.116	494.4	21.8	

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-01-01** **Date: 04-08-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Construction of CC Drains left side of the 1st main road Dasarahalli in Ward no.15 Dasarahalli Sub division.
Agency	:	Sri. N. Shivananda, No.35, 2nd Cross, 1st A main road, Defiance colony, Bagalagunte, Bangalore.
Customer's Reference	:	EE/DD/WO/99/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-08-17
Sample ID No	:	2017-08-01-01/01(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	320	320	2.1	97.9	90-100
3	20 mm	5600	5920	39.5	60.5	30-70
4	10 mm	4660	10580	70.5	29.5	10-35
5	4.75 mm	4020	14600	97.3	2.7	0-5
6	Pan	400	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-08-01-01** **Date: 04-08-17**

Sample ID No : 2017-08-01-01/01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.25	_

Note:

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